



**GRACE INERTIA 2.5**

TE Internal #: 2-2232546-3

PCB Mount Header, Vertical, Wire-to-Board, 2 Position, 2.5 mm [.098 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, GRACE INERTIA 2.5

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Wire-to-Board**

Number of Positions: **2**

Number of Rows: **1**

**Features**

**Electrical Characteristics**

Operating Voltage	50 VDC
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**Dimensions**

PCB Thickness (Recommended)	1.6 mm, 2 mm [.062 in][.078 in]
Connector Length	7.5 mm [.295 in]

**Packaging Features**

Packaging Quantity	900
Packaging Method	Carton

**Industry Standards**

Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

**Usage Conditions**

Operating Temperature (Max)	105 °C [221 °F]
Operating Temperature Range	-30 – 105 °C [-22 – 221 °F]



### Body Features

Connector & Keying Code	C
Primary Product Color	Red

### Mechanical Attachment

Panel Mount Feature	Without
Mating Retention	Without
Mating Alignment Type	Keyed
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

### Termination Features

Termination Post & Tail Length	3 mm, 16.85 mm[.663 in][.118 in]
Square Termination Post & Tail Dimension	.5 mm[.02 in]
Termination Method to PCB	Through Hole - Solder

### Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 $\mu$ m[50 $\mu$ in]
Contact Size	.5mm
Contact Mating Area Plating Material Thickness	1 $\mu$ m[39.37 $\mu$ in]
Mating Square Post Dimension	.5 mm[.02 in]
PCB Contact Termination Area Plating Material Thickness	1 $\mu$ m[39.37 $\mu$ in]
Contact Shape & Form	Square
Contact Layout	Inline
Contact Mating Area Length	3.8 mm[.149 in]
Contact Base Material	Brass
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin
Contact Type	Tab
Contact Current Rating (Max)	3 A

### Housing Features

Mating Entry Location	Top
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Housing Material	66 Nylon (GF)
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Centerline (Pitch)	2.5 mm [.098 in]
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### Configuration Features

Number of Columns	2
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Number of Loaded Positions	2
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Number of Signal Positions	2
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Connector Contact Load Condition	Fully Loaded
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PCB Mount Orientation	Vertical
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Number of Positions	2
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Number of Rows	1
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### Product Type Features

Mixed & Hybrid Header	No
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Connector Shape	Rectangular
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PCB Connector Assembly Type	PCB Mount Header
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Connector System	Wire-to-Board
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Header Type	Fully Shrouded
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Sealable	No
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Connector & Contact Terminates To	Printed Circuit Board
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### Operation/Application

Circuit Application	Signal
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### Other

EU RoHS Compliance	Compliant
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### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Not Yet Reviewed
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JAN 2019 (197) SVHC > Threshold: Not Yet Reviewed
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Halogen Content

Not Yet Reviewed for halogen content

Solder Process Capability

Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

### Compatible Parts



TE Part # 2-1971793-5  
NEW GI CONN2.5 PLUG HSG 2P BLK



TE Part # CAT-G7534A-P729A  
Glow Wire Sig GRACE INERTIA Plug



TE Part # 2-1971794-1  
NEW GI CONN2.5 TPA 2P BLACK



TE Part # 2232905-1  
EP 2.5 LIF RCPT CONTACT, 26-22 AWG



TE Part # 2232983-1  
EP 2.5 LIF RCPT CONTACT, 24-20 AWG



TE Part # 1744423-1  
EP 2.5 RCPT CONTACT, 24-20 AWG

Also in the Series | **GRACE INERTIA 2.5**



Connector Contacts(6)



Connector Hardware(7)



PCB Headers & Receptacles(173)



Power Contacts(2)



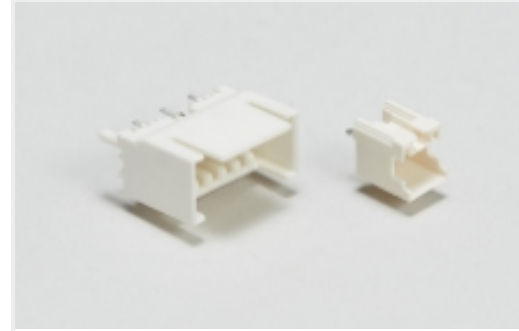
Rectangular Connector Housings(49)



Standard Rectangular Connectors(49)

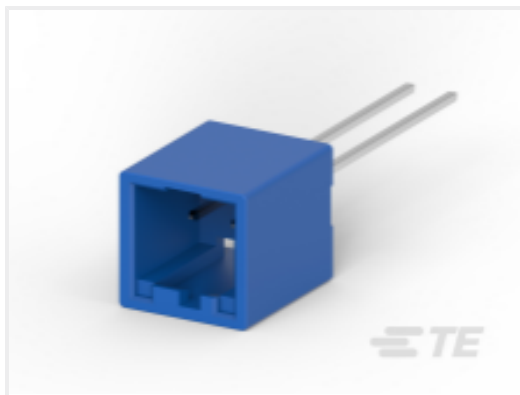


Wire-to-Board Connector Assemblies & Housings(47)



Wire-to-Board Headers & Receptacles (173)

## Customers Also Bought



TE Part #2-2232546-2  
GI2.5 HDR ASS 2P BL NO BOSS TAPE



TE Part #2027395-5  
T9W1K15-12S



TE Part #2-2141600-2  
TAB 2.8x0.8 CONTACT CF SRC Ag



TE Part #1-1649357-3  
RTH34012



TE Part #2-1971800-4  
NEW GI CONN2.5 HDR ASMBLY 2P  
YLW D1.5



TE Part #5-2232546-1  
GI2.5 HDR ASS 5P NC NO BOSS TAPE

## Documents

### Product Drawings

[GI2.5 HDR ASS 2P RED NO BOSS TAPE](#)

English

### CAD Files

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_2-2232546-3\\_A.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2232546-3\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2232546-3\\_A.3d\\_stp.zip](#)

English

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## Product Specifications

[Product Specification](#)

English

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## Agency Approvals

[UL Report](#)

English